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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/569,319	02/22/2006	Alexandros Tourapis	PU040213	5710
	7590 12/21/201 d, Patent Operations	EXAMINER		
THOMSON Licensing LLC P.O. Box 5312 Princeton, NJ 08543-5312			BAYARD, EMMANUEL	
			ART UNIT	PAPER NUMBER
			2611	
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			12/21/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

The MAILING DATE of this communication app Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute. Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	IS SET TO EXPIRE 3 MONTH (ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timularly under the application to become ABANDONE	S) OR THIRTY (30) DAYS, I. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
The MAILING DATE of this communication app Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DATE of the stensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute. Any reply received by the Office later than three months after the mailing	Emmanuel Bayard Pears on the cover sheet with the cover sheet will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	2611 correspondence address S) OR THIRTY (30) DAYS, I. lely filed the mailing date of this communication. D (35 U.S.C. § 133).			
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Status					
Responsive to communication(s) filed on <u>27 O</u> This action is FINAL . 2b) ☑ This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) 1-22 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-22 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	vn from consideration.				
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	epted or b) objected to by the Idrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate			

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DETAILED ACTION

This is in response to amendment filed on 10/27/10 in which claims are 1-22 pending. The applicant's amendments have been fully considered but they are moot based on the new ground of rejection.

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ozcelik et al U.S. Patent No 5,574663 in view of Banerji et al U.S. Pub No 20050008240.

As per claims 1, 9, 14-15, 19 Ozcelik et al. teaches in a video decoder, a method, for decoding a hybrid intra-inter encoded block comprising (see abstract): combining (see fig.1 element 154]) a first spatial prediction of a current block (see fig.1 element 118) with a second temporal prediction of a current block (see fig.1 element 120 and col.3, lines 8-10)

However Ozcelik fails wherein the first spatial prediction of the current block is intra prediction and the second temporal prediction of the current block is interprediction.

Banerji et al teaches teach wherein the combine **intra-prediction** to exploit **spatial statistical and inter- prediction** to exploit **temporal statistical** and which is functional equivalent to the first spatial prediction of the current block is intra prediction and the second temporal prediction of the current block is inter prediction (see paragraph [0009] [0235].

It would have been obvious to one of ordinary skill in the art to implement the teaching of Banerji into Ozcelik as to generate stitched reconstructed block in the next frame of the sequence and also describe an exact process for decoding the video as taught by Banerji (see abstract and paragraph [0009]).

As per claim 2, Ozcelik and Banerji in combination would teach wherein encoding the block includes combining the first prediction and the second prediction and a third prediction of the current block as to generate stitched reconstructed block in the next frame of the sequence and also describe an exact process for decoding the video as taught by Banerji (see abstract and paragraph [0009]).

As per claim 3, Ozcelik and Banerji in combination would teach further comprising reducing the filter strength of a deblocking filter adapted to •increase the correlation between pixels adjacent to the current block as to reduce blocking artifacts leading to poor picture quality and inaccurate prediction as taught by Banerji (see abstract and paragraph [0021]).

As per claims 4 and 21, Ozcelik and Banerji in combination would teach wherein the first prediction and the second prediction are combined by averaging the first prediction and the second prediction as to generate stitched reconstructed block in the

next frame of the sequence and also describe an exact process for decoding the video as taught by Banerji (see abstract and paragraph [0009]).

As per claims 5,18 and 22 Ozcelik and Banerji in combination would teach, wherein the first prediction and the second prediction are combined by weighting each of the first prediction and the second prediction as to generate stitched reconstructed block in the next frame of the sequence and also describe an exact process for decoding the video as taught by Banerji (see abstract and paragraph [0009]).

As per claim 6, Ozcelik and Banerji in combination would teach wherein the current block is a 16 x 16 macro block as to generate stitched reconstructed block in the next frame of the sequence and also describe an exact process for decoding the video as taught by Banerji (see abstract and paragraph [0009]).

As per claim 7, Ozcelik and Banerji in combination would teach, wherein the current block is a sub-macro block as to generate stitched reconstructed block in the next frame of the sequence and also describe an exact process for decoding the video as taught by Banerji (see abstract and paragraph [0009]).

As per claim 8, Ozcelik and Banerji in combination would teach wherein the current block is a 4 x 4sub- macro block partition as to generate stitched reconstructed block in the next frame of the sequence and also describe an exact process for decoding the video as taught by Banerji (see abstract and paragraph [0009]).

As per claim 10, Ozcelik and Banerji in combination would teach wherein the combining unit is adapted to average together the first intra prediction of the block and the first inter prediction of the block as to generate stitched reconstructed block in the

next frame of the sequence and also describe an exact process for decoding the video as taught by Banerji (see abstract and paragraph [0009]).

As per claim 11, Ozcelik and Banerji in combination would teach wherein the hybrid intra-inter coded block is the average of the first intra prediction and the first inter prediction as to generate stitched reconstructed block in the next frame of the sequence and also describe an exact process for decoding the video as taught by Banerji (see abstract and paragraph [0009]).

As per claim 12, Ozcelik and Banerji in combination would teach, television comprising a video decoder as claimed in Claim 9 as to generate stitched reconstructed block in the next frame of the sequence and also describe an exact process for decoding the video as taught by Banerji (see abstract and paragraph [0009]).

As per claim 13, it is rejected under the same rational as described in claim 1 above. It's obvious to one skilled in the art that the combination of OZcelik and Banerji teaches A video decoder (see abstract) adapted to decode a bitstream including bipredictive intra-inter encoded blocks as to generate stitched reconstructed block in the next frame of the sequence and also describe an exact process for decoding the video as taught by Banerji (see abstract and paragraph [0009]).

As per claim 16, Ozcelik and Banerji in combination would teach wherein the combining unit is a summing block as to generate stitched reconstructed block in the next frame of the sequence and also describe an exact process for decoding the video as taught by Banerji (see abstract and paragraph [0009]).

As per claim 17, Ozcelik and Banerji in combination would teach wherein the combining unit combines the first intra prediction and the first inter prediction by average the two predictions as to generate stitched reconstructed block in the next frame of the sequence and also describe an exact process for decoding the video as taught by Banerji (see abstract and paragraph [0009]).

As per claim 20, Ozcelik and Banerji in combination would teach wherein the step of combining is accomplished using a summing block as to generate stitched reconstructed block in the next frame of the sequence and also describe an exact process for decoding the video as taught by Banerji (see abstract and paragraph [0009]).

Conclusion

- 3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 4. Kurobe et al U.S. Patent No 6,389,073 B1.
- 5. Wilkinson U.S. Patent No 5,659,363.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Emmanuel Bayard whose telephone number is 571 272 3016. The examiner can normally be reached on Monday-Friday (7:Am-4:30PM) Alternate Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chieh Fan can be reached on 571 272 3042. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

12/17/2010

Emmanuel Bayard Primary Examiner Art Unit 2611

/Emmanuel Bayard/ Primary Examiner, Art Unit 2611